

HARAM YOON

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EDUCATION

Pomona College

Bachelor of Arts in **Computer Science & Cognitive Science**, Minor in Mathematics

GPA: 3.7/4.0

Claremont, CA

Expected Grad: **May 2026**

Relevant Coursework: Discrete Math & Func Programming, Data Structures & Adv Programming, Data Science & Stat Learning, Linear Algebra, Calculus III, Math of Big Data, Stat Linear Models, Corpus Linguistics, Intro to Comp Language & Theory

EXPERIENCE

Pomona College HCI Lab

Undergraduate Research Intern

May 2024 – Aug 2024

Claremont, CA

- Investigated research on the impact of shared gaze versus shared voice on collaborative settings across group sizes
- Engineered a 144-trial visual search app using Express/Node.js, enhancing research capabilities for groups of 1-6
- Integrated Socket.io and Tobii eye-tracking to enable real-time gaze sharing, optimizing data storage accuracy by 40%
- Maintained real-time multi-user experiments with Firebase, enabling live monitoring and ensuring 99% cross-trial consistency

Snapchat Inc.

Augmented Reality Development Extern

Mar 2024 – Apr 2024

Remote

- Innovated personalized AR experiences for Gatorade using Snap's Lens Studio, elevating brand engagement by 25%
- Leveraged hand tracking and object detection using JavaScript and Python CNNs, boosting user participation by 40%
- Pioneered digital storytelling & AR design techniques, developing experiences that resonated with over 5 million Snapchat users

FoodClub (Startup)

Backend Engineer Intern

Jan 2024 – May 2024

Remote

- Constructed robust REST APIs on the Priority Team using Node.js, Express, AWS, and SQL
- Refactored Postgres & DynamoDB queries, increasing user capacity by 200% and speeding database lookups by 30%
- Implemented caching and rate limiting with Redis, cutting API response times by 50% and preventing server overload
- Coordinated code reviews and quality assurance for backend services, generating a 20% improvement in code efficiency

Associated Students of Pomona College

Software Engineer

Nov 2023 – Present

Claremont, CA

- Revamped student platform using React and Ruby on Rails, escalating daily users by 40% among 1,500+ students
- Expanded core CRUD functionalities within the admin dashboard for static events, housing, and custom pages
- Upgraded housing platform by adding images and floor plans through a Postgres database, reducing housing concerns by 25%
- Orchestrated development of p-Recs, an AI-powered course recommender using Flask and NLP, achieving 50% higher student course satisfaction and a 95% increase in platform engagement

5C Hack

Lead Software Engineer

Sep 2023 – Apr 2024

Claremont, CA

- Spearheaded development of a new React app for 100s of students within 5C Hack, executing a more modern & user-friendly website, amplifying website engagement by 50% and boosting hackathon signups by 30%

PROJECTS

GrooveGauge | R, Machine Learning

Feb 2024 – May 2024

- Trained an ML model achieving 0.85 R^2 in predicting Spotify song danceability utilizing advanced regression techniques in R
- Increased accuracy by 15% through feature engineering, including interaction terms, transformations, and stepwise regression
- Implemented robust outlier analysis and regularization techniques, reducing overfitting in large-scale music classifiers

p-Reset | Next.js, Tailwind, Flask, Postgres, Python, Machine Learning

Sep 2023 – Dec 2023

- Engineered a full-stack, AI-powered personalized self-care app with Next.js, Tailwind, and Flask in a team of 6 engineers
- Incorporated journaling, habit tracking, and calendaring features utilizing Google Cal API and Postgres
- Programmed a sentiment analysis and an AI recommendation system using k-means clustering, NLP modeling, and LDA, potentially improving user engagement and personalization in mental health applications by up to 150%

Spoti-Tweet | React, TypeScript, Next.js, Spotify API, MySQL, Prisma, tRPC

Jun 2023 – Aug 2023

- Architected a full-stack web app cloning core Spotify and Twitter functionality, allowing an easy way to share songs
- Utilized Tailwind, TypeScript, Next.js, and Spotify API endpoints for custom players, search, library, etc.
- Retrieved Spotify data through OAuth to create type-safe Prisma models using tRPC for a MySQL database

Haram-commerce | React, Firebase, Node.js, Express

Jun 2023 – Jul 2023

- Architected a 30+ page e-commerce site using React and Firebase, with secure Oauth and NoSQL data persistence
- Engineered Node.js/Express server to integrate Stripe API and manage dashboard CRUD operations for seamless management

TECHNICAL SKILLS

Languages/ Tools: Python, Java, HTML, CSS, JavaScript, TypeScript, Ruby, SQL, R, Haskell, Git/Github

Full-Stack: React, Tailwind, Next.js, Node.js, Express, Flask, Ruby on Rails, Firebase, MongoDB, MySQL, PostgreSQL, AWS

Data Science: Pandas, Numpy, Matplotlib, Scikit-learn, tidyverse, Jupyter, R Markdown